

FIG. 5 (continued)

Accessing Sensitive Data (Cont.)

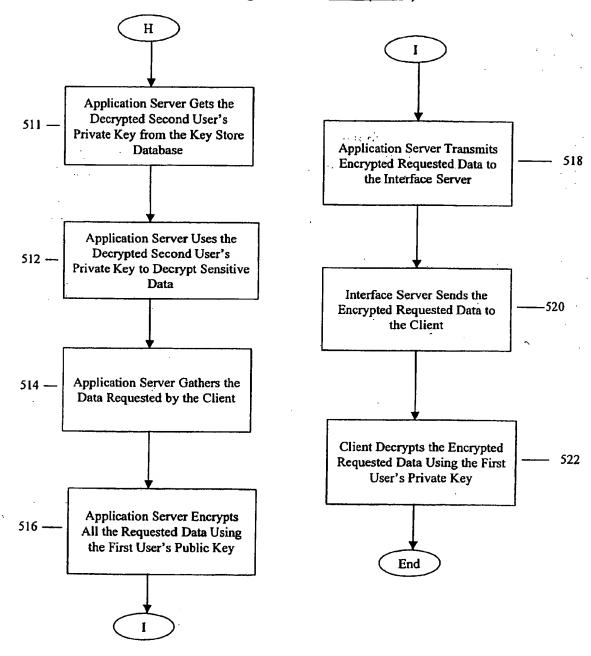
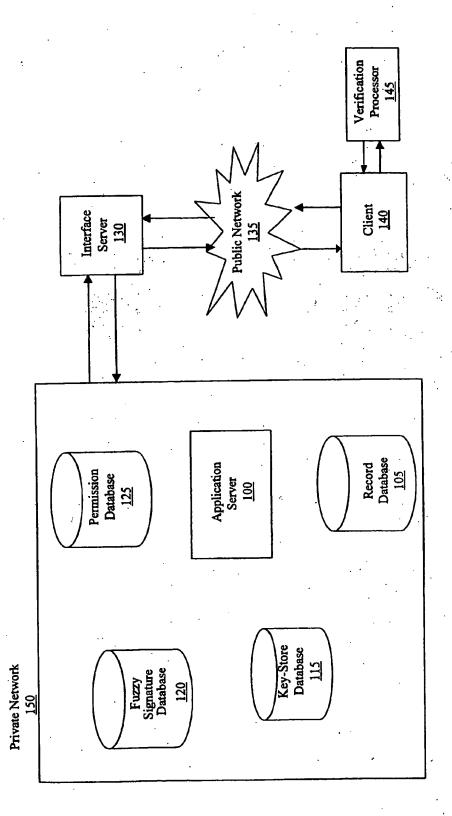




Fig. 1a



2



Fig. 1b

Keys Used for Authenticating the Interface Server

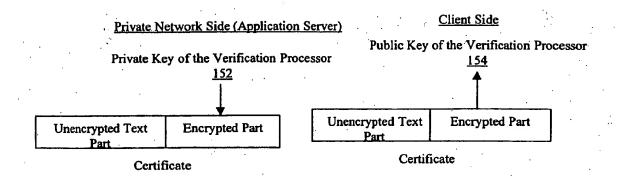




Fig. 1c

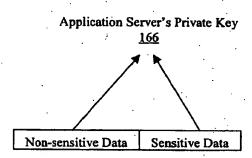
Keys Used in Transmitting, Receiving, and Storing Data

Client Transmitting Data to a Private Network (Application Server)

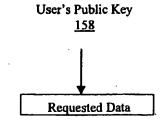
Application Server's Public Key 160 User's Public Key 158

Non-sensitive Data | Sensitive Data

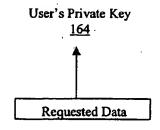
Private Network (Application Server)
Receiving and Storing Data



Private Network (Application Server)
Transmitting Data to Client



Client Receiving Data



Key: = Encryption = Decryption



Fig. 1d

Keys Utilized in Fuzzy Searching

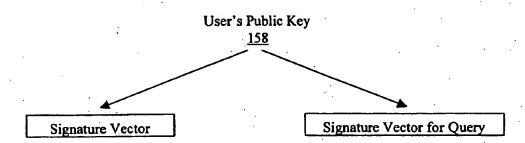




Fig. 1e

Keys Utilized in Relational Database Searching

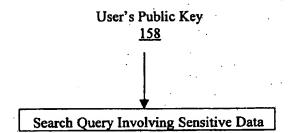
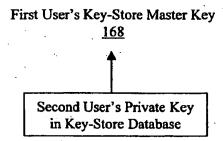




Fig. 1f

Keys Utilized in Accessing Sensitive Data



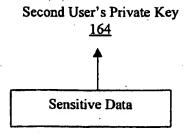




Fig. 1h

Steps for Communications between a Client and a Private Network

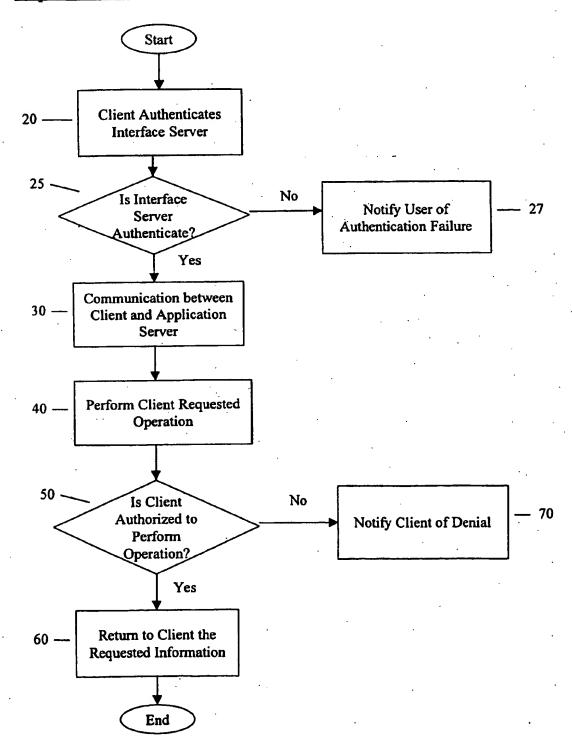
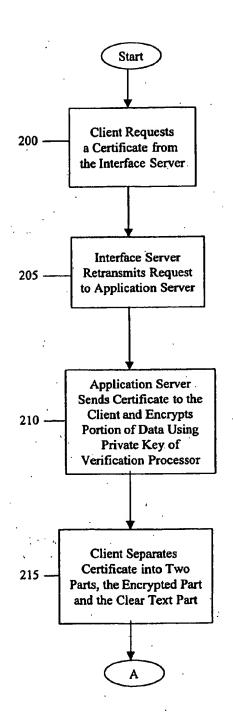




Fig. 2

Authentication



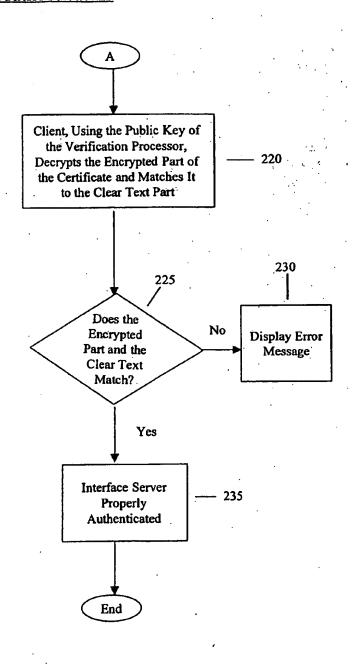




Fig. 3

Transmission and Storage of Data

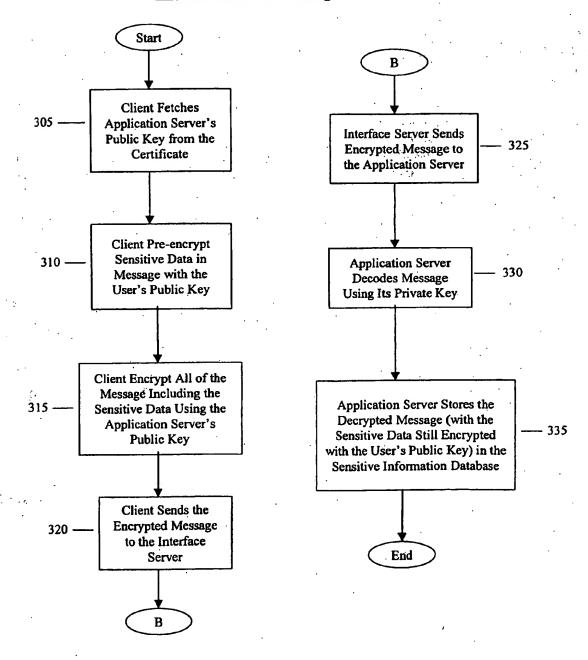




FIG. 4

Search Operation

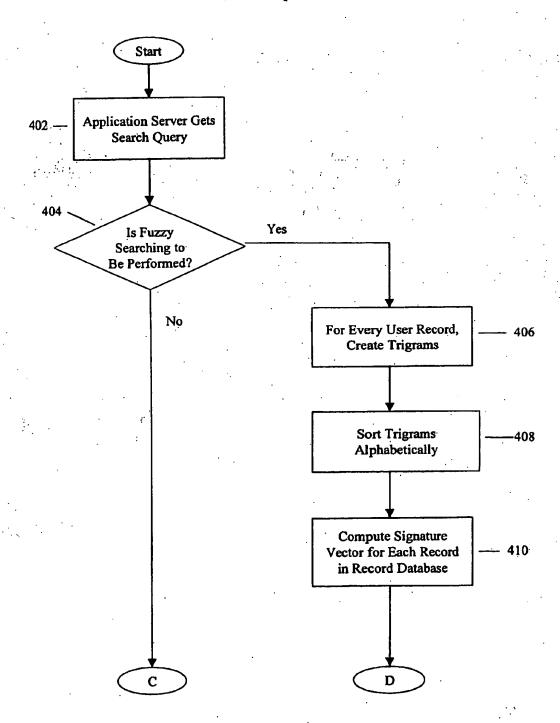




FIG. 4 (continued)

Search Operation

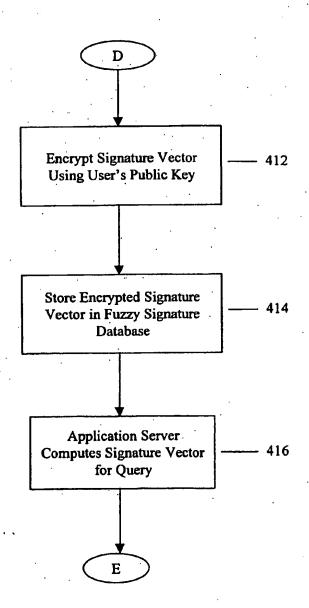




FIG. 4 (continued)

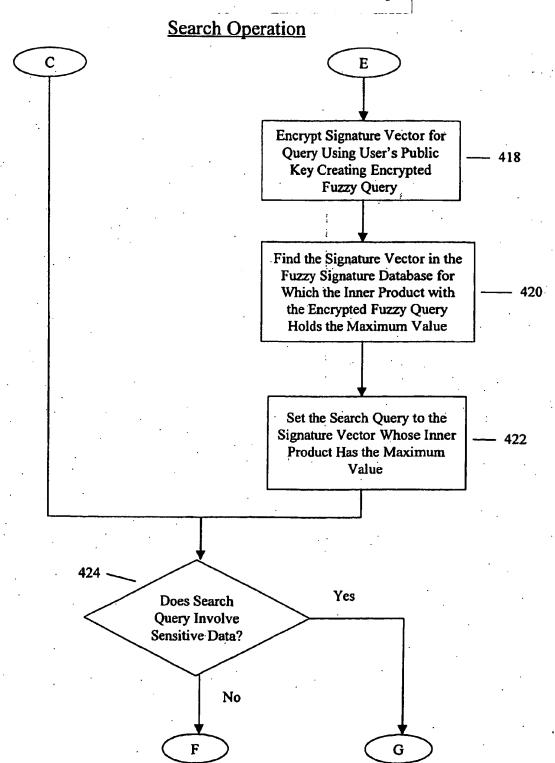




FIG. 4 (continued)

Search Operation

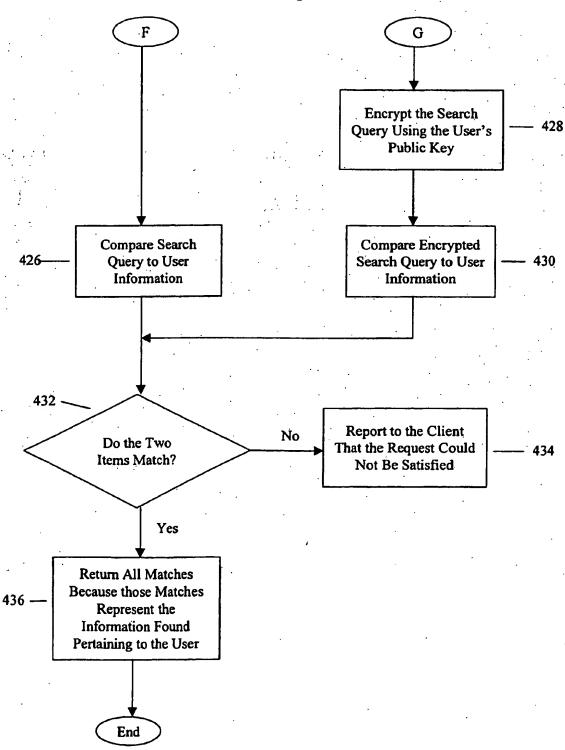




FIG. 5

Accessing Sensitive Data

